

Patent Abstracts of Japan

PUBLICATION NUMBER : 2003332141
 PUBLICATION DATE : 21-11-03

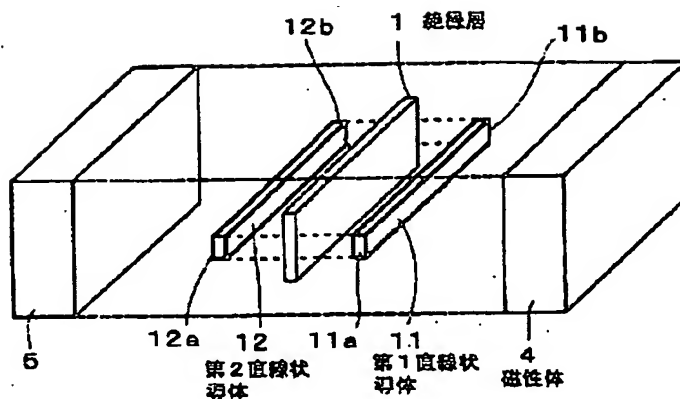
APPLICATION DATE : 15-05-02
 APPLICATION NUMBER : 2002139817

APPLICANT : TDK CORP;

INVENTOR : FUJISHIRO YOSHIKAZU;

INT.CL. : H01F 27/29 H01F 17/04

TITLE : CHIP COMMON MODE CHOKE COIL



ABSTRACT : **PROBLEM TO BE SOLVED:** To provide a chip common mode choke coil superior in high speed transmission by lessening the capacitance between the parts of a coil conductor and heightening the resonant frequency of common mode characteristics.

SOLUTION: The chip common mode choke coil forms the same shaped first and second linear conductors 11 and 12 making a pair on the front and rear of an insulating layer, sandwiches the first and second linear conductors 11 and 12 with magnetic components 4 and 5, and has a structure forming a coil conductor making the pair by only the linear conductors 11 and 12. Both ends of each linear conductor 11 and 12 are connected to a mounting outside electrode respectively, and the mounting outside electrode is formed so that the formation face of each linear conductor 11 and 12 is vertical to a mounting surface. When a thickness of the insulating layer 1 is t_1 , the thickness of the first linear conductor 11 is t_2 and the thickness of the second linear conductor 12 is t_3 , a condition of $t_1+t_2+t_3>100\text{ }\mu\text{m}$ is desired to be satisfied.

COPYRIGHT: (C)2004,JPO